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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/607,784

06/27/2003

Hiroko Uenaka

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EXAMINER

ZHAO, DAQUAN

ART UNIT

PAPER NUMBER

2621

MAIL DATE

DELIVERY MODE

03/18/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/607,784	Applicant(s) UENAKA ET AL.	
	Examiner DAQUAN ZHAO	Art Unit 2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 January 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 6/27/2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 1/30/2008 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 1-12 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 2, 3, 5, 6, 7, 9 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Akiba et al (US 6,542,695 B1), in view of Yamamoto (US 7,043,135 B2) and further in view of Kaminski et al (US 6,744,967 B2).

Regarding claim 1, Akiba et al teach a video signal recording/playback apparatus comprising:

- a recorder for recording a video signal in a recording medium (e.g. figure 2, column 4, lines 30-52, recording signal processing system 2);
- a player for playing back said video signal at a playback position in said recording medium (e.g. figure 2, column 4, lines 30-52, the reproduction signal processing system 4) while said recorder records a recording position of said video signal in said recording medium (e.g. column 4, lines 10-15, the recording and reproduction operation can be done simultaneously);
- a controller for calculating a time difference between said recording position and said playback position (e.g. column 7, lines 26-41, display the time difference between the video signal during the reproduction and the video signal during the recording);
- displaying a time value corresponding to said time difference with said played video signal (e.g. figure 14 A, "time difference").

Akiba et al fail to disclose an on-screen display (OSD) generator for generating and displaying a time value.

Yamamoto teaches an on-screen display (OSD) generator for generating and displaying a time value. (e.g. column 2, lines 61-65, figure 2A-2B, "20:09:40"). It would have been obvious for one ordinary skill in the art at the time the invention was made to

incorporate the teaching of Yamamoto into the teaching of Akiba et al to vary the location of the OSD data and adjust the aspect ratio of the video image to increase the display variation and options to the user (e.g. Yamamoto, column 2, lines 56-65).

Yamamoto et al display the time value in the units of "hours:minutes:seconds". However, Akiba et al and Yamamoto fail to teach

changing a displayed time format to one of: a first time format displaying said time value in only the unit of seconds exclusive of displaying said time value in a unit of minutes and a unit of hours, wherein said displayed time format is changed to said first time format in response to said time difference being less than one minute, or

a second time format displaying said time value in the unit of minutes exclusive of displaying said time value in the unit of seconds and the unit of hours, wherein said displayed time format is changed to said second time format in response to said time difference being less than 60 minutes and not less than 60 seconds, or

a third time format displaying said time value in the unit of hours exclusive of displaying said time value in the unit of seconds and the unit of minutes, wherein said displayed time format is changed to said third time format in response to said time difference being not less than 60 minutes.

Kaminski et al teach **a third time format** displaying said time value in the unit of hours exclusive of displaying said time value in the unit of seconds and the unit

of minutes, wherein said displayed time format is changed to said third time format in response to said time difference being not less than 60 minutes (e.g. figure 12, “3 hours”).

It would have been obvious to one ordinary skill in the art at the time the invention was made to incorporate the teaching of Kaminski et al into the teaching of Akiba et al and Yamamoto to simplify the time display format.

Claims 5 and 11 are rejected for the same reasons as discussed in claim 1 above.

Regarding claim 2, Akiba et al teach produces a signal indicating said time difference based on a numeral indicating said time difference and a term meaning a difference (e.g. column 7, lines 26-40).

Regarding claims 3 and 7, Yamamoto teaches OSD generator produces a window displaying said time difference therein and combines said window with said played video signal (e.g. figure 2A, column 4, lines 36-44, OSD data 22 is displayed on the video display area 21, wherein the area for the OSD data 22 or the area 21 are considered to be a window).

Regarding claim 6, Yamamoto teach said OSD generator produces a signal for displaying said time difference in a unit of seconds if said difference is less than one minute, for displaying said time difference in a unit of minutes if said time difference is less than 60 minutes and not less than one minute, and for displaying said time difference in a unit of hours if said difference is not less than 60 minutes (e.g. figure 2a-2B: “20:09:04”).

For claim 9, Akiba et al teach the whole data amount varies (e.g. the whole data amount varies because the data amount depends on the time difference and the time difference can be varied).

3. Claims 4, 8, 10 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Akiba et al (US 6,542,695 B1), Yamamoto (US 7,043,135 B2) and Kaminski et al (US 6,744,967 B2) as applied to claims 1, 2, 3, 5, 6, 7, 9 and 11 above, and further in view of Goto et al (US 7,218,837 B2).

See the teaching of Akiba et al, Yamamoto and Kaminski et al.

Regarding claims 4 and 8, Akiba et al, Yamamoto and Kaminski et al fail to teach OSD generator produces a meter for indicating a recording time of said video signal, a marking for indicating said recording position of said video signal, and a marking for indicating said playback position of said video signal which all are displayed in said window. Goto et al teach OSD generator produces a meter for indicating a recording time of said video signal, a marking for indicating said recording position of said video signal, and a marking for indicating said playback position of said video signal which all are displayed in said window (e.g. figure 4, column 11, lines 1-32, record position mark "F" and playback position mark "B"). It would have been obvious for one ordinary skill in the art at the time the invention was made to incorporate the teaching of Goto et al into the teaching of Akiba et al, Yamamoto and Kaminski et al to let the user easily know whether the indicated program is a currently-broadcasted

program or a program represented by a signal reproduced from a recording medium (Goto et al, column 1, lines 50-55).

For claim 12, Goto et al teach a network interface for receiving a video signal and a whole data amount of said video signal from an external apparatus through a network (Goto et al teach an interface between the broadcast station and the recording apparatus in figure 7).

For claim 10, Goto et al teach external apparatus records said video signal, stores a predetermined recording time of said video signal, and deletes a time of said video signal which exceeding said predetermined time, wherein said network I/F receives a latest whole data amount of said video signal from said external apparatus, and wherein said controller calculates a time difference between said end of said video signal and said current playback position based on said latest whole data amount (e.g. column 19, line 52- column 20, line 3).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daquan Zhao whose telephone number is (571) 270-1119. The examiner can normally be reached on M-Fri. 7:30 -5, alt Fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tran Thai Q, can be reached on (571)272-7382. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Art Unit: 2621

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Daquan Zhao/
Examiner, Art Unit 2621
Daquan Zhao

/Thai Tran/
Supervisory Patent Examiner, Art Unit 2621